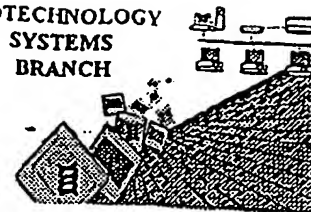




BIOTECHNOLOGY  
SYSTEMS  
BRANCH



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/659,324  
Source: oipe  
Date Processed by STIC: 9-22-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
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1. EFS-Bio (<<http://www.uspto.gov/efc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
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3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name,  
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
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2011 South Clark Place, Arlington, VA 22202
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OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/659,324

DATE: 09/22/2003  
TIME: 13:10:52

Input Set : A:\pto.yf.txt  
Output Set: N:\CRF4\09222003\J659324.raw

3 <110> APPLICANT: Birger Sorensen  
5 <120> TITLE OF INVENTION: HIV Peptides, antigens, vaccine compositions, immunoassay  
kit and a  
6 method of  
7 detecting antibodies induced by HIV.  
9 <130> FILE REFERENCE: 2833.4001LO  
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/659,324  
12 <141> CURRENT FILING DATE: 2003-09-11  
14 <150> PRIOR APPLICATION NUMBER: US 09/674,674  
15 <151> PRIOR FILING DATE: 2001-07-25  
17 <160> NUMBER OF SEQ ID NOS: 49  
19 <170> SOFTWARE: PatentIn Ver. 3.1  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 20  
23 <212> TYPE: PRT  
24 <213> ORGANISM: artificial sequence  
26 <220> FEATURE:  
28 <223> OTHER INFORMATION: synthetic peptide  
30 <220> FEATURE:  
32 <221> NAME/KEY: VARIANT  
33 <222> LOCATION: 1  
34 <223> OTHER INFORMATION: Xaa in position 1 is Lys or Arg  
36 <220> FEATURE:  
38 <221> NAME/KEY: VARIANT  
39 <222> LOCATION: 2  
40 <223> OTHER INFORMATION: Xaa in position 2 is Ala, Gly, Ser or Arg  
42 <220> FEATURE:  
44 <221> NAME/KEY: VARIANT  
45 <222> LOCATION: 3  
46 <223> OTHER INFORMATION: Xaa in position 3 is Leu or Met  
48 <220> FEATURE:  
50 <221> NAME/KEY: VARIANT  
51 <222> LOCATION: 4  
52 <223> OTHER INFORMATION: Xaa in position 4 is Gly or Arg  
54 <220> FEATURE:  
56 <221> NAME/KEY: VARIANT  
57 <222> LOCATION: 5  
58 <223> OTHER INFORMATION: Xaa in position 5 is Pro, Thr, Val, Ser, Gln or Ala  
60 <220> FEATURE:  
62 <221> NAME/KEY: VARIANT  
63 <222> LOCATION: 6  
64 <223> OTHER INFORMATION: Xaa in position 6 is Gly, Ala, Lys, Arg, Gln or Glu  
66 <220> FEATURE:  
68 <221> NAME/KEY: VARIANT

**Does Not Comply  
Corrected Diskette Needed**

P. 2.6

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/659,324

DATE: 09/22/2003

TIME: 13:10:52

Input Set : A:\pto.yf.txt

Output Set: N:\CRF4\09222003\J659324.raw

69 <222> LOCATION: 8  
70 <223> OTHER INFORMATION: Xaa in position 8 is Thr or Ser  
72 <220> FEATURE:  
74 <221> NAME/KEY: VARIANT  
75 <222> LOCATION: 9  
76 <223> OTHER INFORMATION: Xaa in position 9 is Leu or Ile  
78 <220> FEATURE:  
80 <221> NAME/KEY: VARIANT  
81 <222> LOCATION: 14  
82 <223> OTHER INFORMATION: Xaa in position 14 is Thr, Ser or Val  
84 <220> FEATURE:  
86 <221> NAME/KEY: VARIANT  
87 <222> LOCATION: 15  
88 <223> OTHER INFORMATION: Xaa in position 15 is Ala or Ser  
91 <220> FEATURE:  
93 <221> NAME/KEY: VARIANT  
94 <222> LOCATION: 16  
95 <223> OTHER INFORMATION: Xaa in position 16 is Cys or Ser  
97 <220> FEATURE:  
99 <221> NAME/KEY: DISULFID  
100 <222> LOCATION: 16  
101 <223> OTHER INFORMATION: (disulfide) optional  
103 <220> FEATURE:  
105 <221> NAME/KEY: VARIANT  
106 <222> LOCATION: 17  
107 <223> OTHER INFORMATION: Xaa in position 17 is Gln or Leu  
109 <220> FEATURE:  
111 <221> NAME/KEY: VARIANT  
112 <222> LOCATION: 18  
113 <223> OTHER INFORMATION: Xaa in position 18 is Gly, Glu or Arg  
115 <220> FEATURE:  
117 <221> NAME/KEY: VARIANT  
118 <222> LOCATION: 20  
119 <223> OTHER INFORMATION: Xaa in position 20 is Gly or Arg  
121 <400> SEQUENCE: 1  
W--> 122 Xaa Xaa Xaa Xaa Xaa Xaa Ala Xaa Xaa Gln Thr Pro Trp Xaa Xaa Xaa  
123 1 5 10 15  
125 Xaa Xaa Val Xaa  
126 20  
128 <210> SEQ ID NO: 2  
129 <211> LENGTH: 20  
130 <212> TYPE: PRT  
131 <213> ORGANISM: artificial sequence  
133 <220> FEATURE:  
135 <223> OTHER INFORMATION: synthetic peptide  
137 <220> FEATURE:  
139 <221> NAME/KEY: DISULFID  
140 <222> LOCATION: 16  
141 <223> OTHER INFORMATION: disulfide, optional, can form a homodimer with another SEQ  
ID NO 2 or a

*Xaa can only be an amino-acid*

## RAW SEQUENCE LISTING

DATE: 09/22/2003

PATENT APPLICATION: US/10/659,324

TIME: 13:10:52

Input Set : A:\pto.yf.txt

Output Set: N:\CRF4\09222003\J659324.raw

142 heterodimer  
143 with SEQ ID NO 5  
145 <400> SEQUENCE: 2  
146 Lys Ala Leu Gly Pro Gly Ala Thr Leu Gln Thr Pro Trp Thr Ala Cys  
147 1 5 10 15  
149 Gln Gly Val Gly  
150 20  
152 <210> SEQ ID NO: 3  
153 <211> LENGTH: 20  
154 <212> TYPE: PRT  
155 <213> ORGANISM: artificial sequence  
157 <220> FEATURE:  
159 <223> OTHER INFORMATION: synthetic peptide  
161 <400> SEQUENCE: 3  
162 Arg Ala Leu Gly Pro Ala Ala Thr Leu Gln Thr Pro Trp Thr Ala Ser  
163 1 5 10 15  
165 Leu Gly Val Gly  
166 20  
168 <210> SEQ ID NO: 4  
169 <211> LENGTH: 25  
170 <212> TYPE: PRT  
171 <213> ORGANISM: artificial sequence  
173 <220> FEATURE:  
175 <223> OTHER INFORMATION: synthetic peptide  
177 <220> FEATURE:  
179 <221> NAME/KEY: VARIANT  
180 <222> LOCATION: 1  
181 <223> OTHER INFORMATION: Xaa in position 1 is Arg, Lys, Asp or missing  
183 <220> FEATURE:  
185 <221> NAME/KEY: VARIANT  
186 <222> LOCATION: 2  
187 <223> OTHER INFORMATION: Xaa in position 2 is Trp, Gly, Lys or Arg  
189 <220> FEATURE:  
191 <221> NAME/KEY: VARIANT  
192 <222> LOCATION: 3  
193 <223> OTHER INFORMATION: Xaa in position 3 is Ile, Leu, Val or Met  
195 <220> FEATURE:  
197 <221> NAME/KEY: VARIANT  
198 <222> LOCATION: 4  
199 <223> OTHER INFORMATION: Xaa in position 4 is Ile, Val or Leu  
201 <220> FEATURE:  
203 <221> NAME/KEY: VARIANT  
204 <222> LOCATION: 5  
205 <223> OTHER INFORMATION: Xaa in position 5 is Leu, Met, Val or Pro  
207 <220> FEATURE:  
209 <221> NAME/KEY: VARIANT  
210 <222> LOCATION: 12  
211 <223> OTHER INFORMATION: Xaa in position 12 is Gly or missing  
213 <220> FEATURE:

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/659,324

DATE: 09/22/2003  
TIME: 13:10:52

Input Set : A:\pto.yf.txt  
Output Set: N:\CRF4\09222003\J659324.raw

215 <221> NAME/KEY: VARIANT  
216 <222> LOCATION: 13  
217 <223> OTHER INFORMATION: Xaa in position 13 is Gly or missing  
219 <220> FEATURE:  
221 <221> NAME/KEY: VARIANT  
222 <222> LOCATION: 14  
223 <223> OTHER INFORMATION: Xaa in position 14 is Gly or missing  
226 <220> FEATURE:  
228 <221> NAME/KEY: VARIANT  
229 <222> LOCATION: 15  
230 <223> OTHER INFORMATION: Xaa in position 15 is Arg or Lys  
232 <220> FEATURE:  
234 <221> NAME/KEY: VARIANT  
235 <222> LOCATION: 16  
236 <223> OTHER INFORMATION: Xaa in position 16 is Met or Leu  
238 <220> FEATURE:  
240 <221> NAME/KEY: VARIANT  
241 <222> LOCATION: 18  
242 <223> OTHER INFORMATION: Xaa in position 18 is Ser, Cys or Gln  
244 <220> FEATURE:  
246 <221> NAME/KEY: VARIANT  
247 <222> LOCATION: 20  
248 <223> OTHER INFORMATION: Xaa in position 20 is Thr, Val, Ile, Ser or Ala  
250 <220> FEATURE:  
252 <221> NAME/KEY: VARIANT  
253 <222> LOCATION: 21  
254 <223> OTHER INFORMATION: Xaa in position 21 is Ser, Gly or Thr  
256 <220> FEATURE:  
258 <221> NAME/KEY: VARIANT  
259 <222> LOCATION: 24  
260 <223> OTHER INFORMATION: Xaa in position 24 is Asp, Glu, Cys or Gly  
262 <220> FEATURE:  
264 <221> NAME/KEY: DISULFID  
265 <222> LOCATION: 24  
266 <223> OTHER INFORMATION: disulfide, optional  
268 <220> FEATURE: same  
270 <221> NAME/KEY: VARIANT  
271 <222> LOCATION: 25  
272 <223> OTHER INFORMATION: Xaa in position 25 is Gly or missing  
275 <400> SEQUENCE: 4  
W--> 276 Xaa Xaa Xaa Xaa Xaa Gly Leu Asn Pro Leu Val Xaa Xaa Xaa Xaa Xaa  
277 1 5 10 15  
279 Tyr Xaa Pro Xaa Xaa Ile Leu Xaa Xaa  
280 20 25  
282 <210> SEQ ID NO: 5  
283 <211> LENGTH: 24  
284 <212> TYPE: PRT  
285 <213> ORGANISM: artificial sequence  
287 <220> FEATURE:

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/659,324

DATE: 09/22/2003  
TIME: 13:10:52

Input Set : A:\pto.yf.txt  
Output Set: N:\CRF4\09222003\J659324.raw

289 <223> OTHER INFORMATION: synthetic peptide  
291 <220> FEATURE:  
293 <221> NAME/KEY: DISULFID  
294 <222> LOCATION: 23  
295 <223> OTHER INFORMATION: disulfide, optional, can form homodimer with another SEQ ID

NO 5 or a  
296 heterodimer  
297 with SEQ ID NO 2  
300 <400> SEQUENCE: 5  
301 Trp Ile Ile Pro Gly Leu Asn Pro Leu Val Gly Gly Gly Lys Leu Tyr  
302 1 5 10 15  
304 Ser Pro Thr Ser Ile Leu Cys Gly  
305 20  
307 <210> SEQ ID NO: 6  
308 <211> LENGTH: 24  
309 <212> TYPE: PRT  
310 <213> ORGANISM: artificial sequence  
312 <220> FEATURE:  
314 <223> OTHER INFORMATION: synthetic peptide  
316 <400> SEQUENCE: 6  
317 Arg Trp Leu Leu Leu Gly Leu Asn Pro Leu Val Gly Gly Gly Arg Leu  
318 1 5 10 15  
320 Tyr Ser Pro Thr Ser Ile Leu Gly  
321 20  
323 <210> SEQ ID NO: 7  
324 <211> LENGTH: 23  
325 <212> TYPE: PRT  
326 <213> ORGANISM: artificial sequence  
328 <220> FEATURE:  
330 <223> OTHER INFORMATION: synthetic peptide  
332 <400> SEQUENCE: 7  
333 Lys Ile Leu Leu Gly Leu Asn Pro Leu Val Gly Gly Gly Arg Leu Tyr  
334 1 5 10 15  
336 Ser Pro Thr Ser Ile Leu Gly  
337 20  
339 <210> SEQ ID NO: 8  
340 <211> LENGTH: 23  
341 <212> TYPE: PRT  
342 <213> ORGANISM: artificial sequence  
344 <220> FEATURE:  
346 <223> OTHER INFORMATION: synthetic peptide  
348 <400> SEQUENCE: 8  
349 Arg Leu Leu Leu Gly Leu Asn Pro Leu Val Gly Gly Gly Arg Leu Tyr  
350 1 5 10 15  
352 Ser Pro Thr Thr Ile Leu Gly  
353 20  
355 <210> SEQ ID NO: 9  
356 <211> LENGTH: 27  
357 <212> TYPE: PRT  
358 <213> ORGANISM: artificial sequence

9/22/03

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/659,324

DATE: 09/22/2003  
TIME: 13:10:53

Input Set : A:\pto.yf.txt  
Output Set: N:\CRF4\09222003\J659324.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,4,5,6,8,9,14,15,16,17,18,20  
Seq#:4; Xaa Pos. 1,2,3,4,5,12,13,14,15,16,18,20,21,24,25  
Seq#:9; Xaa Pos. 1,2,3,7,8,9,10,11,12,14,15,16,17,18,19,20,21,22,23,24,25  
Seq#:9; Xaa Pos. 26,27  
Seq#:15; Xaa Pos. 1,2,5,6,7,8,9,11,13,14,15,16,17,18,19,20,21,22,23,24,25  
Seq#:15; Xaa Pos. 26,27,28,29,30,31  
Seq#:16; Xaa Pos. 6,21  
Seq#:17; Xaa Pos. 6  
Seq#:18; Xaa Pos. 6  
Seq#:19; Xaa Pos. 5  
Seq#:20; Xaa Pos. 5  
Seq#:25; Xaa Pos. 5,20  
Seq#:32; Xaa Pos. 21,22  
Seq#:33; Xaa Pos. 11

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:2; Line(s) 147

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/659,324

DATE: 09/22/2003  
TIME: 13:10:53

Input Set : A:\pto.yf.txt  
Output Set: N:\CRF4\09222003\J659324.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
M:341 Repeated in SeqNo=1  
L:276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
M:341 Repeated in SeqNo=4  
L:503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
M:341 Repeated in SeqNo=9  
L:775 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
M:341 Repeated in SeqNo=15  
L:809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
M:341 Repeated in SeqNo=16  
L:837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:881 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:912 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (21) SEQUENCE:  
L:917 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (22) SEQUENCE:  
L:922 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (23) SEQUENCE:  
L:974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
M:341 Repeated in SeqNo=25  
L:1089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:16  
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0



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June 2004	TCs 1600, 1700, 2800 and 2900
July 2004	TCs 3600 and 3700
August 2004	TCs 2100 and 2600

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